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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,640	09/28/2001	Alex Horng	HORN3062/EM/7242	1979
	7590 01/16/2003			
Bacon & Thomas 4th Floor 625 Slaters Lane			EXAMINER	
			NGUYEN, HANH N	
Alexandria, VA 22314			ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 01/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		1200
	Application No.	Applicant(s)
,	09/964,640	HORNG ET AL.
Office Action Summary	Examiner	Art Unit
	Nguyen N Hanh	2834
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statuted to the second patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may eply within the statutory minimum of will apply and will expire SIX (6) Note, cause the application to become	thirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
	This action is non-final.	nottore proposition as to the in-
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	wance except for formal r er <i>Ex parte Quayl</i> e, 1935	natiers, prosecution as to the merits is C.D. 11, 453 O.G. 213.
4) Claim(s) 1-12 is/are pending in the application	on.	
4a) Of the above claim(s) is/are withdr	rawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-12</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	l/or election requirement.	
Application Papers		
9) The specification is objected to by the Examin		<u> </u>
10)⊠ The drawing(s) filed on <u>28 September 2001</u> is		
Applicant may not request that any objection to		
11) The proposed drawing correction filed on		_ disapproved by the Examiner.
If approved, corrected drawings are required in		
12) The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.	C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:		
1. Certified copies of the priority docume	ents have been received.	
2. Certified copies of the priority docume		
3. Copies of the certified copies of the praphication from the International * See the attached detailed Office action for a little copies.	Bureau (PCT Rule 17.2(a	1)).
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S	.C. § 119(e) (to a provisional application).
a) The translation of the foreign language [15] Acknowledgment is made of a claim for dome		
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notic	riew Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152) : .

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: "permanent ring magnet 23" in page 4, lines 24,27,29 should be written as ---permanent ring magnet 22---.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2,4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Shiraki et al.

Regarding claim 1, Shiraki et al. disclose an easy-to-start structure for a D.C. brushless motor, comprising: a base (7 and 13 in Fig. 1 and 2) comprising a through-hole (9) having an end, a support section (bearing 4 in Fig. 1) being provided in the end of the through-hole, plural windings (15-1 and 15-2 in Fig. 4) and an IC control means (Col. 4, lines 32-44) being mounted to the base, at least one positioning member (31-2) being mounted to the base and located between said plural windings; and a rotor (26 in Fig. 3) comprising a shaft (5) and a permanent ring magnet (30) having a north pole and a south pole, each of the south pole and the north pole having a strong magnetic area, the shaft being rotatably held by the support section; said at least one positioning member being made of a material capable of attracting and thus retaining one of the strong magnetic areas of the permanent ring magnet in a position proximal to

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said at least one positioning member when the rotor stops (Col. 2, lines 64-67 and Col. 6, lines 1-5).

Regarding claim 2, Shiraki et al. disclose an easy-to-start structure for a D.C. brushless motor further comprising a support element (bearing 3) mounted to another end of the through-hole, the support element comprising a second support section (inner race of bearing 3) for rotatably holding an end of the shaft of the rotor.

Regarding claim 4, Shiraki et al. disclose an easy-to-start structure for a D.C. brushless motor wherein the IC control means (24 in Fig. 4) is located between two of said plural windings that are adjacent to each other.

Regarding claim 5, Shiraki et al. disclose an easy-to-start structure for a D.C. brushless motor wherein the rotor (26) has blades (27) mounted thereon.

Regarding claim 6, Shiraki et al. disclose an easy-to-start structure for a D.C. brushless motor wherein the base comprises at least one engaging hole (the recess to accommodate bearing 4), and wherein the support element comprises at least one engaging piece (outer race of bearing 4) for engaging with said at least one engaging hole.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraki et al. in view of Nishiyama et al.

Regarding claim 3, Shiraki et al. show all limitations of the claimed invention except showing a brushless motor wherein the base has at least one positioning groove for receiving said at least one positioning member.

However, Nishiyama et al. disclose a rotor has at least one groove (13 in Fig. 2) for receiving magnet (12) for the purpose of holding the magnet.

Since Shiraki et al. and Nishiyama et al. are in the same field of endeavor, the purpose disclosed by Nishiyama et al. would have been recognized in the pertinent art of Shiraki et al.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Shiraki et al. by forming groove on the base as taught by Nishiyama et al. for the purpose of holding the magnet.

4. Claims 7, 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraki et al. in view of Kim.

Regarding claim 7, Shiraki et al. show an easy-to-start structure for a D.C. brushless motor, comprising: a base (7 and 13 in Fig. 1 and 2) comprising a through-hole (9) having an end, a support section (bearing 4 in Fig. 1) being provided in the end of the through-hole, plural windings (15-1 and 15-2) and an IC control means (Col. 4, lines 21-44) being mounted to the base,; a rotor (26 in Fig. 3) comprising a shaft (5) and a permanent ring magnet (30) having a north pole and a south pole, each of the south pole and the north pole having a strong magnetic area, the shaft being rotatably

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held by the support section; and a casing (1) mounted around the base, said at least one positioning member being located between said plural windings; said at least one positioning member being made of a material capable of attracting and thus retaining one of the strong magnetic areas of the permanent ring magnet in a position proximal to said at least one positioning member when the rotor stops except showing the casing comprising at least one positioning member provide thereon.

However, Kim discloses a brushless motor wherein the casing comprising at least one positioning member (39 in Fig. 1 and Col. 8, lines 5-15) provide thereon for the purpose of controlling the stoppage position of the rotor.

Since Shiraki et al. and Kim are in the same field of endeavor, the purpose disclosed by Kim would have been recognized in the pertinent art of Shiraki et al.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Shiraki et al. by using a position member provided on the casing as taught by Kim for the purpose of controlling the stoppage position of the rotor.

Regarding claim 9, Kim also discloses a brushless motor wherein said at least one positioning member being directly formed on the casing by means of pressing.

Regarding claim 10, Shiraki et al. also disclose an easy-to-start structure for a D.C. brushless motor further comprising a support element (bearing 3) mounted to another end of the through-hole, the support element comprising a second support section (inner race of bearing 3) for rotatably holding an end of the shaft of the rotor.

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Regarding claim 11, Shiraki et al. disclose an easy-to-start structure for a D.C. brushless motor wherein the IC control means (24 in Fig. 4) is located between two of said plural windings that are adjacent to each other.

Regarding claim 12, Shiraki et al. disclose an easy-to-start structure for a D.C. brushless motor wherein the base comprises at least one engaging hole (the recess to accommodate bearing 4), and wherein the support element comprises at least one engaging piece (outer race of bearing 4) for engaging with said at least one engaging hole.

5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraki et al. in view of Kim and further in view of Bruno.

Regarding claim 8, Shiraki et al. and Kim disclose the invention except for showing the base further comprises at least one rib on an outer wall thereof, and wherein the casing is tightly fitted to said at least one rib.

However, Bruno discloses a structure for an electric motor wherein base further comprises at least one rib on an outer wall thereof (Fig. 5), and wherein the casing is tightly fitted to said at least one rib for the purpose of supporting the base.

Since Shiraki et al., Kim and Bruno are in the same field of endeavor, the purpose disclosed by Bruno would have been recognized in the pertinent art of Shiraki et al. and Kim.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Shiraki et al. by forming ribs on an outer wall as taught by Bruno for the purpose of supporting the base.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh N Nguyen whose telephone number is (703) 305-3466. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner 's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

HNN

January 9, 2003

NESTOR RAMIREZ

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

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